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**EDITION** 



ILLUSTRATED

## CYCLOPEDIC DICTIONARY MEDICAL Taber's

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à.



electrocoagulation

(e-lĕk"trō-kō-ăg"ū-

Make sure insulators are dry. sufficient moisture to conduct electricity. rainy day ordinary insulators may contain precautions must be taken. On a humid or that it is electrically charged and special possible. If patient is in water, remember always preferable to turn off the current if tact or to remove wire from patient. It is

tragedies result. TREATMENT: SEE: elecrent and have it shut off, otherwise multiple procedure is to ascertain the source of curtrial locations cannot be insulated by such about x-ray equipment or in conducting currubber, paper, or strips of wood. A safe means. Such currents may jump through rents for long distances or for special indus-High tension currents, such as those used

current are principal symptoms. sciousness; contact or proximity to source of e. shock. SYM: Burns, with loss of con-

electric'ity. A form of energy which exhibits mal effects. Composed of two parts: positive magnetic, chemical, mechanical, and thermay be necessary. SEE: resuscitation; shock off current. Prolonged artificial respiration which is protons and negative which is elecsuch as dry wood, paper, rubber, etc., or shut from source of current with nonconductors F. A. TREATMENT: Carefully free victim

rubbing two articles together. e., frictional. Generation of static e. by

e., galvanic. E. generated by chemical

another body close by, without contact. e., magnetic. E. induced by means of a 9., Induced. E. generated in a body from

an excess of electrons negatively charged. e., positive. Electric charge caused by e., negative. Electric charge caused by

; loss of negative electrons. 0., Static. E. generated by friction of cer-

tain materials. e., unit of. SEE: ampere; coulomb;

farad; ohm; volt.

electriza'tion. The act of charging or treatelec'trify [Gr. elektron, amber, + L. facere, to make). To charge a body with electricity. ing by use of electricity.

electro, electr. [Gr. ēlektron, amber]. Prefix indicating relationship to electricity.

electroanalgesia ["+ analgesia, want of cally or through implanted electrodes feeling). Producing relief from pain by using low intensity electrical currents applied lo-

electroanesthesia (e-lčk"tro-ăn"es-the zi-ă) ["+ an, not, + aisthésis, sensation]. 1. Local anesthesia induced by an anesthetiz-

> frequency, amplitude, and wave form mentally in both the U.S.S.R. and U.S.A. through the brain. Has been used experidevice which passes electricity of a certain tricity. 2. General anesthesia produced by a ing substance injected into tissues by elec-

electrobiol'ogy ["+ bios, life, + logos, study of]. Science of electric phenomena in the liv-

electrobios'copy ["+ "+ skopein, to exam-

electrocardiogram ECG; EKG cle is electrically polarized and then depolerhythm and myocardial damage. ABBR: the diagnosis of cases of abnormal cardiac chambers of the heart and it is of value in gram gives important information concernthe U wave is unknown. The electrocardio to contraction of the ventricles. The cause of of the atria. During this time the heart mus-The first or P wave is caused by contraction grăm") ["+ kardia, heart, + gramma, writing the spread of excitation to the different rized. The Q, R, S, and T waves are related and T waves. Sometimes a U wave is seen. heart; shows certain waves called P, Q, R, S, ing]. A record of the electrical activity of the (e-lěk"trō-kār'dī-o

electrocardiograph heart muscles. graf) ["+ "+ graphein, to write]. Device for recording electrical variations in action of (e-lĕk''trō-kār'dì-o-

electrocardiog'raphy. The making and study of graphic records (electrocardio-grams) produced by electrical currents originating in the heart.

electrocatalysis (e-lěk"trō-kă-tăl'ī-sīs) ["+ electrocardiophonograph decomposition produced by electricity. to write]. Device for recording heart sounds kardia, heart, + phone, sound, + graphein. kăr"di-o-fo'no-graf) [Gr. elektron, amber, + kata, down, + lysis, loosening). Chemical .(e-lĕk"trō-

electrocautery (e-lěk"trō-kaw'těr-ī) either direct or alternating. means of an apparatus consisting of a holder red or white heat by a current of electricity containing a wire, which may be heated to a kauterion, branding iron]. Cauterization by

electrochem'istry ["+ chēmeia, chemis by electricity. try]. Science of chemical changes produced

electrochem'y. Therapy concerned with which produce chemical effects in the tisphysical applications, such as electricity

electrocision (e-lek"tro-sizh'un) [Gr. élek by electric current. tron, amber, + L. caedare, to cut]. Excision

electrocoagulation quency electric current. The heat producing Coagulation of tissue by means of a high fregue to be destroyed the coagulation is generated within the tislā'shūn) ["+ L. coagulare, to thicken]

electrocontractility (e-lek"tro-kon-trak-

til'I-ti) ["+ L. contrahere, to contract]. Con-

ine]. Electric test to determine if life is preelectrocryptectomy (e-lěk"tro-krip-těk'tōstimulation. traction of muscular tissue by electrical mī) ["+ kryptos, concealed, + ektomē, exci-

electrocystoscopy (e-lěk"tro-sīs-tős'kō-pī) electrocu'tion [Gr. ēlektron, amber, + exeelectric current. cute]. The destruction of life by means of sion]. Destruction of tonsillar crypts by diathe bladder. The use of electric light to see the interior of ["+ kystis, bladder, + skopein, to examine]

electrode (e-lěk'trôd) ["+ hodos, way]. A rent is to be applied. In electrotherapy an e. is an instrument with a point or a surface conductor and the object to which the curmedium intervening between an electric of a patient. from which to discharge current to the body

... e., brush. A wire brush used to apply electricity to a part of the body.

ance than the part of the body in the circuit. e., depolarizing. E. with greater resist-

plied in pairs dissimilar in size and shape, the larger, the dispersive, indifferent, or hen the smaller e. is called the active, and e., dispersive. When e.'s may be ap-

gen gas. e., hydrogen. Form absorbing hydro-

trodes. SEE: multiterminal minals providing for the use of several elec-.e., indifferent. SEE: e., dispersive. e., multiple point. Several sets of tere., negative. Cathode.

dle at one end and a metallic point at the other for use in applying static sparks. e., point. An e. with an insulating hane., positive. Anode.

nandle having on one end a metallic ball or e., spark ball or point. An insulating

SEE: iondophoresis. medicines through the skin by ionization. Point. Used in giving static sparks.

6. therapeutic. E. for introduction of

quency electric sparks, in contradistinction electrodesiccation cells and tissue by means of short high-freto fulguration, which is the destruction cars, to dry up]. The destructive drying of kā'shun)[Gr. ēlektron, amber, + L. desic-(e-lĕk"trō-dĕs"ī-

tissue by means of long high-frequency elec-

tric sparks.

electrodiagnosis. Use of electric and election of nerves and muscles. cine, but particularly in investigating funcuse is helpful in almost all branches of meditronic devices for diagnostic purposes. Their

electrodialysis(e-lěk"trō-di-ăl'ī-sīs)["+ diapassing a current through a solution conod of separating electrolytes from colloids by apart, + lysis, dissolving], (pl. ses) A methtaining both.

electrodynamometer strength of an electric current. measure]. An instrument to measure the mŏm'ē-tĕr) ["+ dynamis, power, + metron, (e-lēk"trō-di"nā-

electroencephalogram graph. ABBR: EEG. sefā-lō-grām) [Gr. ēlektron, amber, + enkewriting]. A tracing on an electroencephalophalos, in the head, brain, + gramma, a (ē-lēk″trō-ēn-

electroencephalography. Amplification, electroencephalograph of the brain. SEE: electroencephalography. ser a lografi ["+"+ graphein, to write]. An instrument for recording electrical activity (e-lěk-trō-ěn-

called an electroencephalogram (EEG). tivity of the brain. The record obtained recording, and analysis of the electrical ac-Electrodes are placed on the scalp in vari-

is the alpha rhythm of 8 1/2-12/seconds. A characteristic change in the wave occurs between many pairs can be obtained simultaneously. The most frequently seen pattern electrical potential of two sites is recorded. ous locations. The difference between during mental attention... during sleep, upon opening the eyes, and in the normal adult under resting conditions The potential between a pair at a time or

sions in the cerebrum. SEE: rhythm, alpha, convulsive disorders and in localizing to be very helpful in studying epilepsy and use of this diagnostic technique has proven have an abnormal EEG. Nevertheless the with no otherwise demonstrable disease will ease will have a normal EEG and others rhythm, beta. Some persons who have intracranial dis-

electrohemostasis sīs) ["+ haima, blood, + stasis, standstill] frequency current. The arrest of bleeding by means of a high-(e-lěk"tro-hě-mös'tă-

electrol'ogy ["+ logos, science]. The branch and properties of electricity of science that deals with the phenomena

electrolysis (e"lēk-trōl'ī-sīs) ["+ lysis, dissolution]. The decomposition of a substance by passage of an electrical current through it.